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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/628,301	07/28/2003	Chih Min Lin	010121-9918 3487	
23409	7590 09/14/2004	EXAM	EXAMINER	
	L BEST & FRIEDRICH, I	LE, DANG D		
	CONSIN AVENUE KEE, WI 53202	ART UNIT	PAPER NUMBER	
MIDWITORED, WI 33202			2834	
			DATE MAILED: 09/14/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Comments	10/628,301	LIN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Dang D Le	2834					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the co	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 09 Au	Responsive to communication(s) filed on <u>09 August 2004</u> .						
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allower	•						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-17 and 27-29</u> is/are pending in the a	4)⊠ Claim(s) <u>1-17 and 27-29</u> is/are pending in the application.						
4a) Of the above claim(s) <u>3,4,10-17 and 27-29</u> i	is/are withdrawn from consideration	on.					
5) Claim(s) is/are allowed.							
6) Claim(s) <u>1,2 and 5-9</u> is/are rejected.		ı					
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner	r.						
	10)⊠ The drawing(s) filed on <u>7/28/03</u> is/are: a)⊡ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the		·					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) X Notice of References Cited (PTO-892)	4) Interview Summary (
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate atent Application (PTO-152)					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	stent Application (F10-152)					

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1, 2 and 5-9 have been considered but are most in view of the new ground(s) of rejection. In addition, the objection to the drawings is retained in this office action.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "first axial length" and the "second axial length" recited in claim 2 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Harris et al. (3513339).

Regarding claim 1, Harris et al. shows an electric generator comprising:

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- A single end frame (14);

- A stator (16) having a stator core, a first end (right side) fixed relative to the end frame, and a second end (left side) remote from the end frame;
- A shaft (38) supported by the end frame (through bearing 26) for rotation about a shaft axis;
- A rotor (40) having opposite sides (right and left) spaced in the direction of the shaft axis, the rotor being connected to the shaft (through 32) for rotation with the shaft relative to the stator, the shaft being supported on only one side (right side) of the rotor for rotation about the shaft axis; and
- A canopy (30) configured to cover at least a portion of the rotor and the second end of the stator during normal operation of the electric motor, a portion (around numeral 16) of the stator core being exposed between the end frame (14) and the canopy (30) at all times during normal operation of the electric motor, the shaft not being supported by the canopy (30) for rotation about the shaft axis.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

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the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 1 and 5-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over West (4797602) in view Binder (4286187).

Regarding claim 1, West shows an electric motor comprising:

- A single end frame (15, Figure 1);
- A stator (11) having a stator core, a first end (right side) fixed relative to the end frame, and a second end (left side) remote from the end frame;
- A shaft (22) supported by the end frame (at 21) for rotation about a shaft axis;
- A rotor (12) having opposite sides (right and left) spaced in the direction of the shaft axis, the rotor being connected to the shaft for rotation with the shaft relative to the stator, the shaft being supported on both sides (right and left side, Figure 1) of the rotor for rotation about the shaft axis; and
- A canopy (14) configured to cover at least a portion of the rotor and the second end of the stator during normal operation of the electric motor, a portion (between 14 and 15) of the stator core being exposed between the end frame and the canopy at all times during normal operation of the electric motor, the shaft is supported by the canopy for rotation about the shaft axis.

West does not show the shaft being supported only one side of the rotor and the shaft not being supported by the canopy for rotation about the shaft axis.

Binder teaches to support the shaft only one side of the rotor (at 25, Figure 2) and the shaft not being supported by the canopy (12') for rotation about the shaft axis for the purpose of reducing cost (less bearing, less cost).

Since West and Binder are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to support the shaft only one side and not to support the shaft by the canopy for rotation about the shaft axis as taught by Binder for the purpose discussed above.

Regarding claims 5-8, it is noted that West and Binder also shows all of the limitations of the claimed invention.

8. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over West in view of Binder and further in view of Kashima et al. (6570281).

Regarding claim 2, the motor of West modified by Binder includes all of the limitations of the claimed invention except for the electric motor being configured to selectively include one of a first performance specification and a second performance specification, the first performance specification requiring the stator core have a first axial length being exposed between the canopy and the end frame, the second performance specification requiring the stator core have a second axial length being

exposed between the canopy and the end frame, and wherein the first axial length is smaller than the second axial length.

Kashima et al. shows stator cores with different performance specification and length for the purpose of reducing cost.

Since West, Binder, and Kashima et al. are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to make stator cores with different performance specification and length as taught by Kashima et al. for the purpose discussed above.

9. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over West in view of Binder and further in view of King et al. (5,079,464).

Regarding claim 9, the motor of West modified by Binder includes all of the limitations of the claimed invention except for the shaft being drivingly connected to a fluid pump for pumping fluid through fluid jets in a hydro massage bathtub.

King et al. shows the shaft being drivingly connected to a fluid pump for pumping fluid through fluid jets in a hydro massage bathtub for the purpose of making a whirlpool.

Since West, Binder, and King et al. are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

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It would have been obvious at the time the invention was made to a person having ordinary skill in the art to connect the shaft to a fluid pump for pumping fluid through fluid jets in a hydro massage bathtub as taught by King et al. for the purpose discussed above.

10. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Takeda et al. (5796190) in view of Arora (4980595).

Regarding claim 1, Takeda et al. shows an electric generator comprising:

- A single end frame (101, Figure 1);
- A stator (111) having a stator core, a first end (right side) fixed relative to the end frame, and a second end (left side) remote from the end frame;
- A shaft (202) supported by the end frame (through engine shaft, through bearing and housing 201 and screw 102a) for rotation about a shaft axis;
- A rotor (120) having opposite sides (right and left) spaced in the direction of
 the shaft axis, the rotor being connected to the shaft for rotation with the shaft
 relative to the stator, the shaft being supported on only one side (right side,
 Figure 1) of the rotor for rotation about the shaft axis; and
- A canopy (103) configured to cover at least a portion of the rotor and the second end of the stator during normal operation of the electric generator, a portion (111b) of the stator core being exposed between the end frame and the canopy at all times during normal operation of the electric generator, the shaft not being supported by the canopy (103) for rotation about the shaft axis.

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Takeda et al. does not show the electric motor.

Arora teaches that generator can be made of motor and motor can be made of generator for the purpose of converting energy in one form to another.

Since Takeda et al. and Arora are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to make the generator as a motor as taught by Arora for the purpose discussed above.

Information on How to Contact USPTO

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dang D Le whose telephone number is (571) 272-2027. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Business Center (EBC) at 866-217-9197 (toll-free).

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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PRIMARY EXAMINER

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